

AGENDA—MISR SCIENCE TEAM MEETING, December 6, 2006
Beckman Institute Auditorium, Caltech, 400 S. Wilson Avenue, Pasadena, CA

Introduction and Project status

8:00	Sign-in	All	(30)
8:30	Welcome, PI's report, meeting context and purpose	Diner	(10)
8:40	User Services report	Ritchey	(10)
8:50	DAAC evolution.....	Walter	(10)

Reports: Radiation and cloud products

9:00	Status of MISR L1 software and products.....	Jovanovic	(10)
9:10	Status of MISR L2TC software and products	Moroney	(10)
9:20	UIUC report: cloud mask updates, global trends	Di Girolamo	(20)
9:40	Impact of cloud screening on cloud and aerosol products.....	Zhao	(10)
9:50	Albedos, heights, and winds	Davies	(15)
10:05	Discussion: Inputs for the Senior Review.....	All	(25)
10:30	Break	All	(15)

Reports: Aerosol and surface products

10:45	Status of MISR L2AS software and products	Paradise	(05)
10:50	Discussion: Quick-look vs. final processing	All	(15)
11:05	Aerosol algorithm updates and example results.....	Martonchik	(15)
11:20	Where we're heading in aerosol research	Kahn	(15)
11:35	Discussion: Inputs for the Senior Review.....	All	(25)
12:00	Lunch.....	All	(90)
1:30	JRC report	Pinty/Verstraete	(20)
1:50	BU report: retrieval of canopy structure	Knyazikhin/Schull	(15)
2:05	Defining MISR RPV utility at EOS validation sites	Hill	(10)
2:15	Discussion: Inputs for the Senior Review.....	All	(25)

Reports: Global products

2:40	Status of MISR L3 software and products	Smyth/Braverman	(10)
2:50	Discussion: “Level 2.5” and inputs for the Senior Review	All	(25)

Terra Senior Review

3:15	Break	All	(15)
3:30	Senior Review discussion, continued.....	All	(90)

Future mission concepts

5:00	Aerosol-cloud-ocean color mission, MSPI.....	Diner/Davis	(30)
5:30	Cloud motion vector camera.....	Diner/Davis	(15)
5:45	Adjourn		

AGENDA—MISR DATA USERS SCIENCE SYMPOSIUM
December 7-8, 2006
Beckman Institute Auditorium, Caltech, 400 S. Wilson Avenue, Pasadena, CA

Thursday, December 7

Introduction

8:30	Sign-in	All	(30)
9:00	Welcome and introductions	Diner	(15)

Surface science

9:15	Mapping SW US forest crown cover, canopy height, and biomass with MISR	Chopping	(20)
9:35	Seasonal variation in MISR RPV anisotropy parameters in relation to vegetation in Australian savanna systems	Hill	(20)
9:55	Physics behind correlation between multi-angle spectral data and canopy height	Schull	(20)
10:15	Multiangular compositing of AirMISR data for surface feature characterization.....	Dupigny-Giroux	(20)
10:35	Break	All	(20)
10:55	Validation of FAPAR products derived from optical sensors: method and results	Gobron	(20)
11:15	Classification of glacier zones in western Greenland using near-infrared albedo and surface roughness from MISR	Nolin	(15)
11:30	A spectro-directional approach to improving snow cover mapping in forested areas	Nolin	(15)
11:45	Retrievals of surface parameters for climate models from MODIS and MISR albedo products.....	Pinty	(30)
12:15	Lunch.....	All	(90)

Surface science (continued)

1:45	Intercomparison of land surface albedo products from MISR, MODIS, MERIS and POLDER2 as a pre-cursor to a GEOSS virtual constellation.....	Muller	(20)
2:05	Validating MISR land surface albedo products.....	Liang	(20)
2:25	Comparison of albedo from MODIS and MISR for the AERONET sites	Lyapustin	(20)
2:45	Discussion	All	(20)

Poster session I

3:05	Poster viewing	All	(60)
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Atmospheric science

4:05	Aerosol air mass types and plume heights from MISR	Kahn	(20)
4:25	Reconstructing the morphology of volcanic plumes with MISR data	Realmuto	(20)
4:45	Cloud height estimation using MISR data	Anderes	(20)

MISR data access and tools

5:05	Q&A with DAAC User Services and MISR tool developers.....	Ritchey, Rheinghans, Thompson	(40)
5:45	Adjourn		

7:00 Dinner at Radhika's Indian Restaurant
 140 Shoppers Lane, Pasadena

Friday, December 8**Atmospheric science (continued)**

9:00	Spatio-temporal statistical modeling of biomass burning and regional black carbon aerosols in Southeast Asia	Calder	(20)
9:20	Estimating PM2.5 component concentrations and size distributions using satellite retrieved fractional aerosol optical depth.....	Liu	(20)
9:40	Global statistical analysis of MISR Level 3 aerosol data	Shi	(20)
10:00	The Aerosol Measurement and Processing System: A grid-enabled science analysis environment	Braverman	(20)
10:20	Break	All	(20)
10:40	Discussion	All	(20)
11:00	Solar radiation budget and radiative forcing due to aerosols and clouds retrieved from satellite-based measurements	Kim	(20)
11:20	Aerosol, cloud, and precipitation characteristics in the trade wind region from satellite, radar and aircraft measurements sampled during RICO	Di Girolamo	(20)
11:40	Fusion of MISR, CERES and MODIS measurements for TOA flux validation.....	Loukachine	(20)
12:00	Lunch.....	All	(90)
1:30	Trend anomalies in albedo and cloud height measured by MISR.....	Davies	(20)
1:50	Seasonal variations in tropical tropopause layer cloud height from MISR ..	Sherwood	(20)
2:10	Comparison of MISR and MODIS cloud-top height retrievals with radiosonde and cloud radar measurements in marine stratocumulus regions during EPIC 2001	Garay	(20)
2:30	Joint distributions of cloud top height and optical depth from MISR and the Multiscale Modeling Framework (MMF) climate model.....	Marchand	(20)
2:50	Enhancement and validation of techniques for stereo observation of optically thin clouds using oblique cameras	Mueller	(20)
3:10	Discussion	All	(20)

Poster session II

3:30	Poster viewing	All	(60)
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Discussion forum

4:30	Wrap-up discussion: what have we learned, what's next	All	(60)
5:30	Adjourn		

Posters

- An RPV inversion package using adjoint and Hessian codes..... Pinty
- MODIS-Meteosat-MISR surface albedo comparison results Pinty
- Vegetation biophysical parameter suite from MISR for ecological applications Knyazhikhin
- Stochastic transport theory for investigating the three-dimensional canopy structure from space measurements Knyazhikhin
- Exploiting MISR observations for vegetation type mapping using Digital Elevation Models and soil maps..... Su
- Characterizing growing seasons from JRC-FAPAR products: Methodology and application to CarboEurope-IP sites Verstraete
- Aerosol particle property comparisons between MISR and AERONET retrieved values Gaitley
- Scale issues in aerosol modelling: A case study on chemical and optical properties over the greater Milan area (Italy), June de Meij
- The spatial and temporal variability of aerosol optical depths in the Mojave Desert of southern California Frank
- Characterization the global aerosol optical depth and Angstrom exponent from MISR observations and IMPACT model predictions Kalashnikova
- Recent improvements in particle property characterizations, spatial coverage, and cloud discrimination in the MISR operational aerosol product Diner
- New concepts in retrieving aerosol properties using MISR Martonchik
- Access to MISR aerosol data and imagery for the GoMACCS field study Ritchey
- Aerosol, cloud, and precipitation characteristics in the trade wind region from satellite, radar and aircraft measurements sampled during RICO Di Girolamo
- Angular dependence of observed and simulated distributions of radiances over stratocumulus clouds Ovtchinnikov
- Multi-platform analysis of cloud height over Antarctica with application toward high resolution observation of type II polar stratospheric clouds Mueller
- Detection of tropical thin cirrus clouds over dark water from MISR with comparisons to ground-based lidar Garay
- Spectropolarimetric imaging of aerosols using tandem photoelastic modulators Davis
- MISR Toolkit 1.2: An API which simplifies the access and analysis of MISR data.....Thompson/Rheingans